



TRAUMA RECON SYSTEM (TRS) TROUBLESHOOTING GUIDE

DRIVE UNITS AND ATTACHMENTS

Problem	Possible Causes	Remedy
Drive unit does not start.	No power module in handpiece.	Insert charged power module.
	Power module is drained.	Charge power module.
	Mode switch is set to LOCK.	Set mode switch to DRILL/REAM, SAW, or OSC DRILL.
	Energy saving feature activated and drive unit automatically turned off.	Set mode switch to LOCK and then back to the applicable operating mode.
	Power module is inoperable (service indicator lamp may be lit when information button is pressed).	Send power module to <i>DePuy Synthes Power Tools Service Department</i> .
	Trigger was depressed before power module registered.	Wait 1-2 seconds when switching from lock mode to working mode before depressing the trigger.
Drive unit lacks power.	Power module is drained.	Charge power module.
	Incorrect attachment used (e.g. drilling speed vs. reaming speed attachment).	Change attachment.
	Mode switch set to incorrect mode.	Set to correct mode.
Drive unit suddenly stops.	Power module is drained.	Charge power module.
	Drive unit has overheated.	Allow to cool to room temperature.
	Drive unit is inoperable.	Send to <i>DePuy Synthes Power Tools Service Department</i> .
Drive unit continues to run after releasing trigger.	Trigger is jammed by residue.	Immediately turn mode switch to LOCK. Clean and oil trigger according to care and maintenance guidelines.
Drive unit or attachment becomes excessively hot.	Drive unit or attachment is used too long.	Allow drive unit or attachment to cool. (see Duty cycles section)
	Saw blade is not firmly tightened.	Tighten saw blade.
Drive unit is too slow.	Mode switch set to incorrect mode.	Set to correct mode.
	Incorrect attachment used (e.g. reaming speed vs. drilling speed attachment).	Change attachment.

Note: Drive unit consists of a handpiece, power module, and lid.

DRIVE UNITS AND ATTACHMENTS

Problem	Possible Causes	Remedy
Drive unit saws too fast or aggressively.	Mode switch set to incorrect mode.	Set to SAW mode.
Drive unit saws erratically.	Mode switch set to OSC DRILL mode.	Set to SAW mode.
Attachments cannot couple to drive unit.	Coupling is blocked by residue.	Remove solid particles with pickups. Oil according to care and maintenance guidelines.
Difficulty removing attachments from drive unit.	Coupling is blocked by residue.	Clean and lubricate coupling sleeve.
Difficulty assembling lid to handpiece.	Lid is not properly aligned.	Align dot on lid with dot on handpiece until fully seated and rotate toward arrow.
	Mode switch not in UNLOCK position.	Set mode switch to UNLOCK position.
Cannot remove lid from handpiece.	Mode switch not in UNLOCK position.	Set mode switch to UNLOCK position.
Mode switch cannot be turned.	Mode switch is blocked by residue.	Clean and lubricate mode switch.
	Safety button was not pressed to change to the UNLOCK position.	Press safety button and simultaneously turn mode switch to UNLOCK.
Triggers are difficult to move.	Trigger shafts are blocked by residue.	Clean and lubricate trigger.
	Trigger shafts are not lubricated.	Lubricate trigger shafts.





ATTACHMENTS AND INSTRUMENTS

Problem	Possible Causes	Remedy
Difficulty inserting instruments into attachment.	Attachment or instrument excessively worn.	Replace attachment or instrument.
K-wire cannot be inserted into the K-wire attachment.	K-wire attachment is not opened.	Fully open the adjustment sleeve at the end of the attachment, insert the K-wire, and close the adjustment sleeve.
K-wire cannot be secured despite pulling the clamping lever.	K-wire attachment is opened too far.	Close the adjustment sleeve at the end of the attachment until the wire is tensioned and release by two clicks.
K-wire is jammed in the attachment and cannot be moved.	K-wire was inserted at an angle and is jammed in the attachment.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
Sagittal saw attachment vibrates too fast or aggressively.	Saw blade coupling is loose.	Retighten locking knob of the saw blade coupling.
	Mode switch set to incorrect function.	Set to SAW mode.
Sagittal saw attachment vibrates erratically.	Mode switch incorrectly set to OSC DRILL.	Set to SAW mode.
	Saw blade is not firmly tightened.	Tighten saw blade.
Bone and cutting tool becomes excessively hot.	Cutting tool is worn.	Replace the cutting tool.



POWER MODULE

Problem	Possible Causes	Remedy
Power module cannot be inserted into handpiece.	Power module inserted in wrong direction.	Turn power module to align correctly and insert again.
Power module cannot be removed from the handpiece.	Power module is jammed in the handpiece.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
Fully charged power module does not operate.	Energy saving feature activated and drive unit automatically turned off.	Set mode switch to LOCK and then back to the applicable operating mode.
	Mode switch is set to LOCK.	Set mode switch to DRILL/REAM, SAW, or OSC DRILL.
	Power module damaged.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
Charge status display does not light when information button is pressed.	Power module is damaged.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
Service indicator light is constantly lit.	Power module is damaged.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
Power module is physically damaged.	Power module has been dropped.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
	Power module was sterilized.	Send to <i>DePuy Synthes Power Tools</i> Service Department.

UNIVERSAL BATTERY CHARGER II

Problem	Possible Causes	Remedy
ON/OFF display does not illuminate.	Charger is switched off.	Turn charger power switch on.
	Power cord is not plugged in.	Connect power cord to charger, plug into wall outlet, and switch on.
	Power supply is interrupted (e.g., damaged fuse).	Check power supply. Replace fuse if necessary.
	Charger is damaged.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
ON/OFF display flashes.	Charger is damaged.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
Power module/battery is inserted and charge display status does not illuminate.	Power module/battery is not fully inserted.	Ensure the power module/battery is inserted properly.
	Contacts in the charging bay are dirty.	Carefully clean contacts.
	Power module/battery was not recognized by the charger.	Remove power module/battery and reinsert in an open charging bay.
	Battery is damaged.	Replace battery.
	Charging bay is damaged.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
Red caution display  illuminates when no power module/battery is inserted.	Charging bay is damaged.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
Yellow battery display  flashes when charging.	Power module/battery is too hot.	Leave power module/battery inserted in charging bay. Charger automatically continues the charging process once the battery has cooled.
Arrow display  does not illuminate when exclamation button  is pressed.	Button was released too soon.	Press button and hold for at least 2 seconds.
	Charging bay is damaged.	Send to <i>DePuy Synthes Power Tools</i> Service Department.
	Charger has an error.	Switch off charger, wait 3 seconds, and switch charger on. If the ON/OFF display flashes, send to the <i>DePuy Synthes Power Tools</i> Service Department.

UNIVERSAL BATTERY CHARGER II

Problem	Possible Causes	Remedy
Power module/battery is impossible to insert.	Power module/battery is being inserted into wrong slot in charging bay.	Insert power module/battery into correct slot in charging bay.
	Contacts in charging bay are bent.	Send to <i>DePuy Synthes Power Tools Service Department</i> .
Charger is noisy.	Vents on sides, back, or base are covered.	Position charger so that vents are exposed.
	Charger positioned next to heat source.	Position charger away from heat source.
Power module/battery performance is low.	Expected battery life is reached.	Test power module/battery. If the red display  illuminates, replace battery or send power module to <i>DePuy Synthes Power Tools Service Department</i> for battery replacement.
	Battery is not ready for use.	Charge power module/battery until green display  illuminates.
	Drive unit or attachment is compromised. (i.e. due to insufficient maintenance)	Send drive unit or power module to <i>DePuy Synthes Power Tools Service Department</i> for repair.

If the suggested solutions are unsuccessful, please contact the *DePuy Synthes Power Tools Service Department* at 1-800-327-6887. *DePuy Synthes Power Tools* recommends an annual preventive maintenance service by qualified *DePuy Synthes Power Tools* personnel.

To prevent overheating, the handpiece and the attachment should be allowed to cool for at least 60 seconds following 30 seconds of constant use. After 5 such cycles, the handpiece and attachment should be allowed to cool for 30 minutes. The user is responsible for following the indicated guidelines. If longer periods of constant use are required, an additional handpiece and/or attachment should be used.

Important:

Always use new cutting tools to prevent overheating of the system due to reduced cutting performance.

Careful maintenance of the system will reduce heat development in the handpiece and the attachments.

Duty Cycle – Intermittent Operation



	X sec on	Y sec off	Cycles
Drilling, screw insertion, Kirschner wire setting	30	60	5
Reaming	30	60	5
Sawing	30	60	5
TRS Recon Sagittal Saw	60	240	5

For information about operating the Trauma Recon System, please refer to the User's Manual (J8805).

Limited Warranty and Disclaimer: Products are sold with a limited warranty to the original purchaser against defects in workmanship and materials. Any other express or implied warranties, including warranties of merchantability or fitness, are hereby disclaimed. Please contact Customer Service for full Warranty statement.

WARNING: In the USA, this product has labeling limitations. See package insert for complete information.

CAUTION: USA Law restricts these devices to sale by or on the order of a physician.
To order in the US, call DePuy Synthes Power Tools Customer Service: (800) 327-6887.

Not all products are currently available in all markets.

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